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TECH CENTER 1600/2900



1600

## RAW SEQUENCE LISTING

DATE: 03/13/2003

PATENT APPLICATION: US/09/276,935D

TIME: 15:11:09

Input Set : A:\PU3474US 3-03 Seqlist.txt

Output Set: N:\CRF4\03132003\I276935D.raw

```

4 <110> APPLICANT: KIEWER, Steven A.
5     JONES, Stacey A.
6     WILLSON, Timothy M.
8 <120> TITLE OF INVENTION: AN ORPHAN NUCLEAR RECEPTOR
11 <130> FILE REFERENCE: PU3474US2
13 <140> CURRENT APPLICATION NUMBER: 09/276,935D
14 <141> CURRENT FILING DATE: 2002-11-27
16 <150> PRIOR APPLICATION NUMBER: 60/079,593
17 <151> PRIOR FILING DATE: 1998-03-27
19 <160> NUMBER OF SEQ ID NOS: 18
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 20
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Probe
31 <400> SEQUENCE: 1
32 ctgctgcgca tccaggacat                                20
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 45
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Probe
42 <400> SEQUENCE: 2
43 ggggtgtgggy aatccaccac catggagggtg agacccaaag aaagc    45
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 34
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Probe
53 <400> SEQUENCE: 3
54 ggggtgtgggy gatcctcagc tacctgtgat gccg                34
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 31
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Probe
64 <400> SEQUENCE: 4
65 gatcagacag ttcatgaagt tcatctagat c                    31

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67 <210> SEQ ID NO: 5
68 <211> LENGTH: 29
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Probe
75 <400> SEQUENCE: 5
76 gatcaatatg aactcaaagg aggtcagtg                29
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 29
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Probe
86 <400> SEQUENCE: 6
87 gatcaatatg aactcaaagg aggtcagtg                29
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 29
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Probe
97 <400> SEQUENCE: 7
98 gatcaatatg ttctcaaagg agaacagtg                29
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 29
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Probe
108 <400> SEQUENCE: 8
109 gatcaataac aactcaaagg aggtcagtg                29
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 32
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Probe
119 <400> SEQUENCE: 9
120 gatgcagaca gttcatgaag ttcattctaga tc          32
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 11
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Probe
130 <400> SEQUENCE: 10
131 Met Lys Lys Gly His His His His His Gly
132 1                    5                    10

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135 <210> SEQ ID NO: 11
136 <211> LENGTH: 316
137 <212> TYPE: PRT
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: His6-PXR Fusion Protein
143 <400> SEQUENCE: 11
144 Met Lys Lys Gly His His His His His His Gly Ser Glu Arg Thr Gly
145 1 5 10 15
146 Thr Gln Pro Leu Gly Val Gln Gly Leu Thr Glu Glu Gln Arg Met Met
147 20 25 30
148 Ile Arg Glu Leu Met Asp Ala Gln Met Lys Thr Phe Asp Thr Thr Phe
149 35 40 45
150 Ser His Phe Lys Asn Phe Arg Leu Pro Gly Val Leu Ser Ser Gly Cys
151 50 55 60
152 Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser Arg Glu Glu Ala Ala Lys
153 65 70 75 80
154 Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val Ser Leu Gln
155 85 90 95
156 Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro Pro Ala Asp
157 100 105 110
158 Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met Ala Asp Met
159 115 120 125
160 Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys Val Ile Ser
161 130 135 140
162 Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Leu Leu Lys Gly
163 145 150 155 160
164 Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe Asn Thr Val Phe Asn Ala
165 165 170 175
166 Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu Ser Tyr Cys Leu Glu Asp
167 180 185 190
168 Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu Glu Pro Met Leu Lys Phe
169 195 200 205
170 His Tyr Met Leu Lys Lys Leu Gln Leu His Glu Glu Tyr Val Leu
171 210 215 220
172 Met Gln Ala Ile Ser Leu Phe Ser Pro Asp Arg Pro Gly Val Leu Gln
173 225 230 235 240
174 His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu Lys
175 245 250 255
176 Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu Phe
177 260 265 270
178 Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala Gln
179 275 280 285
180 His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala Thr
181 290 295 300
182 Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
183 305 310 315
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 242

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188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: RXR Alpha Proten
194 <400> SEQUENCE: 12
195 Met Lys Lys Gly Ser Ala Asn Glu Asp Met Pro Val Glu Arg Ile Leu
196 1 5 10 15
197 Glu Ala Glu Leu Ala Val Glu Pro Lys Thr Glu Thr Tyr Val Glu Ala
198 20 25 30
199 Asn Met Gly Leu Asn Pro Ser Ser Pro Asn Asp Pro Val Thr Asn Ile
200 35 40 45
201 Cys Gln Ala Ala Asp Lys Gln Leu Phe Thr Leu Val Glu Trp Ala Lys
202 50 55 60
203 Arg Ile Pro His Phe Ser Glu Leu Pro Leu Asp Asp Gln Val Ile Leu
204 65 70 75 80
205 Leu Arg Ala Gly Trp Asn Glu Leu Leu Ile Ala Ser Phe Ser His Arg
206 85 90 95
207 Ser Ile Ala Val Lys Asp Gly Ile Leu Leu Ala Thr Gly Leu His Val
208 100 105 110
209 His Arg Asn Ser Ala His Ser Ala Gly Val Gly Ala Ile Phe Asp Arg
210 115 120 125
211 Val Leu Thr Glu Leu Val Ser Lys Met Arg Asp Met Gln Met Asp Lys
212 130 135 140
213 Thr Glu Leu Gly Cys Leu Arg Ala Ile Val Leu Phe Asn Pro Asp Ser
214 145 150 155 160
215 Lys Gly Leu Ser Asn Pro Ala Glu Val Glu Ala Leu Arg Glu Lys Val
216 165 170 175
217 Tyr Ala Ser Leu Glu Ala Tyr Cys Lys His Lys Tyr Pro Glu Gln Pro
218 180 185 190
219 Gly Arg Phe Ala Lys Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile
220 195 200 205
221 Gly Leu Lys Cys Leu Glu His Leu Phe Phe Phe Lys Leu Ile Gly Asp
222 210 215 220
223 Thr Pro Ile Asp Thr Phe Leu Met Glu Met Leu Glu Ala Pro His Gln
224 225 230 235 240
225 Met Thr
229 <210> SEQ ID NO: 13
230 <211> LENGTH: 2146
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Probe
237 <400> SEQUENCE: 13
238 tgaatatag gtgagagaca agattgtctc atatccgggg aaatcataac ctatgactag 60
239 gacgggaaga ggaagcactg cctttacttc agtgggaatc tcggcctcag cctgcaagcc 120
240 aagtgttcac agtgagaaaa gcaagagaat aagctaatac tctgtcctg aacaaggcag 180
241 cggtccttgg gtaaagctac tccttgatcg atcctttgca ccggattggt caaagtggac 240
242 ccagggggag aagtcggagc aaagaactta ccaccaagca gtccaagagg ccagaagca 300
243 aacctggagg tgagacccaa agaaagctgg aaccatgctg actttgtaca ctgtgaggac 360

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244 acagagtcctg ttccctggaaa gccagtgctc aacgcagatg aggaagtcgg aggtccccc 420
245 atctgccgtg tatgtgggga caaggccact ggctatcaact tcaatgtcat gacatgtgaa 480
246 ggatgcaagg gcittttcag gagggccatg aaacgcaacg cccggctgag gtgccccttc 540
247 cggaaggcg cctgcgagat cacccggaag acccggcgac agtgccaggc ctgcccctg 600
248 cgcaagtgcc tggagagcgg catgaagaag gagatgatca tgtccgacga ggccgtggag 660
249 gagaggcggg ccttgatcaa gcggaagaaa agtgaacgga cagggactca gccactggga 720
250 gtgcaggggc tgacagagga gcagcggatg atgatcaggg agctgatgga cgctcagatg 780
251 aaaacctttg acactacctt cccccatttc aagaatttcc ggctgccagg ggtgcttagc 840
252 agtggtctgc agttgccaga gtctctgcag gcccctatcg ggaagaagc tgccaagtgg 900
253 agccagggtc ggaaagatct gtgctctttg aagggtctctc tgcagctgcg gggggaggat 960
254 ggcagtgtct ggaactacaa acccccagcc gacagtggcg ggaaagagat cttctccctg 1020
255 ctgcccacac tggctgacat gtcaacctac atgttcaaag gcatcatcag ctttgccaaa 1080
256 gtcatctcct acttcaggga cttgccctac gaggaccaga tctccctgct gaagggggcc 1140
257 gctttcgagc tgtgtcaact gagattcaac acagtgttca acgcggagac tggaaacctg 1200
258 gagtgtggcc ggctgtccta ctgcttggaa gacactgcag gtggcttcca gcaacttcta 1260
259 ctggagccca tgctgaaatt ccactacatg ctgaagaagc tgcagctgca tgaggaggag 1320
260 tatgtgctga tgcaggccat ctcctctctc tcccagacc gccaggtgt gctgcagcac 1380
261 cgcgtgggtg accagctgca ggagcaattc gccattactc tgaagtccta cattgaatgc 1440
262 aatcgccccc agcctgctca taggttcttg ttccctgaaga tcatggctat gctcaccgag 1500
263 ctccgcagca tcaatgctca gcacaccag cggtctgtgc gcatccagga catacacc 1560
264 tttgctacgc cctcatgca ggagttgttc ggcacacag gtagctgagc ggctgccctt 1620
265 ggggtgacac tccgagagcc agccagacc agagccctct gagccgccac tcccgggcca 1680
266 agacagatgg acactgcca gagccgacaa tgccctgtc gctgtctcc ctagggaatt 1740
267 cctgctatga cagctggcta gcattctca ggaaggacat gggtgcccc caccocag 1800
268 tcagtctgta gggagtgaag ccacagactc ttacgtggag agtgactga cctgtagg 1860
269 aggaccatca gagaggcaag gttgcccttt ccttttaaaa ggccctgtgg tctggggaga 1920
270 aatccctcag atccactaa agtgtcaagg tgtggaagg accaagcgac caaggatagg 1980
271 ccactctggg tctatgccc cataccacg tttgttctg tctgagtct tttcattgct 2040
272 acctetaata gtctgtctc ccacttccc ctgcttccc tctcttccg agctgctttg 2100
273 tgggctccag gctgtactc atcggcagg gcatgagtat ctgtgg 2146

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275 &lt;210&gt; SEQ ID NO: 14

276 &lt;211&gt; LENGTH: 434

277 &lt;212&gt; TYPE: PRT

278 &lt;213&gt; ORGANISM: Homo Sapien

281 &lt;400&gt; SEQUENCE: 14

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282 Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
283 1 5 10 15
284 Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
285 20 25 30
286 Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
287 35 40 45
288 Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
289 50 55 60
290 Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
291 65 70 75 80
292 Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
293 85 90 95
294 Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
295 100 105 110

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